

MEMORANDUM

DATE: April 13, 2011

TO: The Wetlands Board

FROM: Michael Majdeski, Senior Environmental Inspector

SUBJECT: Case NO. W-15-11/VMRC 11-0256; 6019 Tabiatha Lane; Bulkhead replacement and subsequent stabilization

Ms. Karla Havens on behalf of Mr. Christopher Eckenfels has applied for a Wetlands Permit to undertake a bulkhead replacement project and subsequent re-stabilization. The property is located at 6019 Tabiatha Lane within the Chickahominy Haven subdivision directly adjacent to a man-made canal. The property is further identified as JCC Parcel Number 1910600023. Karla Havens of Mid Atlantic Resource Consulting is the authorized agent for this project.

A site visit was conducted on March 22, 2011 by staff to evaluate both the potential scope of the project and the existing conditions on-site.

The location of the existing bulkhead and proposed work borders a canal that empties into the Chickahominy River. The property is situated in a southerly facing direction and does not experience heavy wave action from storm events due to its protected location within the canal although it may be influenced by boat wakes. Although vegetation has established itself in several areas where sloughing has occurred, the bulkhead displays heavy degradation which has in turn created unstable conditions. Both mean high and mean low water fall along the face of the existing bulkhead at varying depths. No wetlands vegetation was observed along the shoreline. The surrounding area is composed of a well vegetated residential lawn and access to the site will be through the applicant's driveway.

The project design proposes to remove the existing timber bulkhead and replace it with 131 linear feet of 8"x18" Diamond Pro anchor block over a sand base no further than approximately 3' landward and no further than 2' channelward of the existing bulkhead. The proposed block wall is approximately 6' high, will impact approximately 20 square feet of non-vegetated wetlands, and 131 square feet of subaqueous bottom. The block wall is proposed to be backfilled with course stone and reinforced with MiraGrid geotechnical material to provide soil stability behind the proposed wall. The backfill will then be stabilized with an appropriate seed mix and mulch to establish vegetative cover. The backfill operation will encroach no further than 5' landward from the back side of the proposed wall.

An engineered construction drawing has been provided illustrating how the wall will be constructed in the field.

If the board chooses to approve this application the following conditions should be included in the permit:

1. Prior to any land disturbing activities, a pre-construction meeting will be held on-site.
2. All other federal, state, and local permits required for this project shall be obtained prior to commencing work. Evidence of the securing of these permits must be provided prior to the pre-construction meeting.
3. No woody vegetation, shall be removed as part of this project unless approved by the Environmental Division as per the approved plan.

4. The Environmental Division Director reserves the right to require erosion and sediment control measures, including a turbidity curtain, for this project if field conditions warrant their use.
5. The limits of work shall be flagged in the field prior to the pre-construction meeting.
6. The proposed seed mix for stabilization must be approved by the Environmental Division prior to the pre-construction meeting.
7. The wetlands permit for this project shall expire on April 13, 2012. If an extension of the permit is needed, a written request shall be submitted to the Environmental Division no later than two weeks prior to the expiration date.

Attachments: Permit Application

Board Photos